

EDMC



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Report Identification Number: 06I-0182-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R31400 J452

Payroll#: 8C278

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
17 Jan 2006	J10X88	06I01521	NMAM 7300M	G060K00H	G WIPE
17 Jan 2006	J10X91	06I01522	NMAM 7300M	G060K00H	G WIPE
17 Jan 2006	J10X90	06I01523	NMAM 7300M	G060K00H	G WIPE
17 Jan 2006	J10X92	06I01524	NMAM 7300M	G060K00H	G WIPE

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Name: Lisa M. Reid

Title: Chemist

Date: January 23, 2006



Case Narrative Page

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Report Identification Number: 06I-0182-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

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General Set Information: There are 4 samples in set 06I-0182-01 and 4 samples in set 06I-0183-01 which were analyzed for beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of +/- 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.01 ug/sample.

Method Blank Analysis: No beryllium was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

Dilution(s): None.

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS results were within the control limits of +/- 20%. The Relative Percent Difference (RPD) between the LCS and the LCSD were within the control limit of 20%.

Replicate Analysis: One sample in this batch was replicated. The RPD between the sample and the replicate was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:
Final result for aqueous samples ($\mu\text{g}/\text{sample}$) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ($\mu\text{g}/\text{L}$)

B = Concentration factor from sample preparation

= Final Volume of Digestate (L)

Sample

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu\text{g}/\text{L}) \times (0.025 \text{ L}/\text{sample}) \times (1) = 0.025 \mu\text{g}/\text{sample}$

Miscellaneous Comments: None



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SAF#: RC-001 / R31400 J452

Payroll#: 8C278

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Beryllium $\mu\text{g}/\text{sample}$
J10X88	06I01521	19 Jan 2006	<0.01 U
J10X91	06I01522	19 Jan 2006	<0.01 U
J10X90	06I01523	19 Jan 2006	<0.01 U
J10X92	06I01524	19 Jan 2006	<0.01 U
Limit of Detection (LOD)			0.01
Required Detection Limit (RDL)			

U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.



QC Summary Page

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Report Identification Number: 06I-0182-01
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Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF: RC-001 / R31400 J452
Payroll#: 8C278

Batch ID: G060K00H

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-240174-1	MB	Beryllium	µg/sample	ND	NA	NA	NA	NA
QC-240174-1	LCS	Beryllium	µg/sample	10.8	NA	10.0	108.	NA
QD-240174-1	LCSD	Beryllium	µg/sample	11.1	10.8	10.0	111.	2.84

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

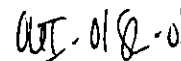
LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result - Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|) / ((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100

[illegible]

Web Page: www.datachem.com
E-mail: lab@datachem.com

Enter on line below the first Sample Number from Page One:

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			
SIGN / PRINT NAMES / USE MILITARY TIME			
Relinquished By/To:	DATE / TIME	Received By/From:	DATE / TIME
James Shiley James Shiley	1-17-06 / 1315	Locked Cabinet, Room 11, Bldg 3746	1-17-06 / 1315
locked cabinet Building 3746 Rm #16			
Gordon M. M. Gordon M. M.	01/17/06 / 1445	RZ Steffler R. Z. Steffler	1-17-06 1445
RZ Steffler R. Z. Steffler	WCH 1-17-06 1530	Fed Ex	
Fed Ex		Meredith Edward	1/17/06
Mitch me	1/17/06 945		
LABORATORY SECTION	Received By Meredith Edward	Title	DATE / TIME 1/17/06 945

REVIEWED BY: _____ DATE: _____
PRINT/SIGN NAME

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: <i>Jim Shiley</i>		Company Contact Denise A. Pitts and Henry W. Ruby		Telephone No. 531-1229		Project Coordinator Joan H. Kessner		Data Turnaround													
Payroll #: <i>8C278</i>		Sampling Location		SPECIAL INSTRUCTIONS All relevant COAs must be provided: <i>R31400 J452</i>		SAF No. RC-001		<i>Standard</i>													
Type of Sample: <i>Be</i>		<i>300 Area, 314 Pad</i>		ANALYSIS METHOD (SPECIFIC): <i>NIOSH 7300</i>		Method of Shipment		<i>Fed COPY</i>													
Shipped To: <i>Datachem</i> <i>Sgt Lake City</i>		Wipe Sample Media: Ghost <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Other				Bill of Lading/Air Bill No. <i>8541 9337 5330</i>															
POSSIBLE SAMPLE HAZARD/REMARKS <i>Be</i>		MATRIX A - AIR WI - WIPE X - OTHER		Preservation (i.e., cooling required, etc.)		No		No		No		No		No		No		No		<i>ARS</i> <i>1-17-06</i>	
Special Handling and/or Storage <i>No</i>																					
SAMPLE ANALYSIS																					
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area <i>100 cm²</i>	Comments	Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold	Lead Wipe	Cd Wipe	Cd Airborne									
<i>J10X88</i>	<i>WI</i>	<i>1-17-06</i>	<i>1.00</i>	<i>N/A</i>				<i>X</i>													
<i>J10X91</i>	<i>WI</i>	<i>1-17-06</i>	<i>1.00</i>	<i>N/A</i>				<i>X</i>													
<i>J10X90</i>	<i>WI</i>	<i>1-17-06</i>	<i>N/A</i>	<i>Blank</i>				<i>X</i>													
<i>J10X92</i>	<i>WI</i>	<i>1-17-06</i>	<i>N/A</i>	<i>Blank</i>				<i>X</i>													
<i>FIELD SAMPLE COPY</i>																					

Enter on line below the first Sample Number from Page One:

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			
SIGN / PRINT NAMES / USE MILITARY TIME			
Relinquished By/Stored:	DATE / TIME:	Received By/Stored:	DATE / TIME:
James Shiley James Shiley	1-17-06 / 1315	Locked Cabinet, Room 16, Bldg 3746	1-17-06 / 1315
Relinquished By/Stored:	DATE / TIME:	Received By/Stored:	DATE / TIME:
locked cabinet Building 3746 Rm #16			
Goldie Malt Goldie Maltman	01/17/06 / 1445	R2 Steffler R. J. Steffl	1-17-06 1445
Relinquished By/Stored:	DATE / TIME:	Received By/Stored:	DATE / TIME:
R2 Steffler R. J. Steffl	WCH 1-17-06 1530	Fed Ex	
Relinquished By/Stored:	DATE / TIME:	Received By/Stored:	DATE / TIME:
Relinquished By/Stored:	DATE / TIME:	Received By/Stored:	DATE / TIME:
Relinquished By/Stored:	DATE / TIME:	Received By/Stored:	DATE / TIME:
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Relinquished By/Stored:	DATE / TIME:	Received By/Stored:	DATE / TIME:
Relinquished By/Stored:	DATE / TIME:	Received By/Stored:	DATE / TIME:
LABORATORY SECTION	Received By	Title	DATE / TIME

COPY

REVIEWED BY: _____ DATE: _____
 PRINT/SIGN NAME